

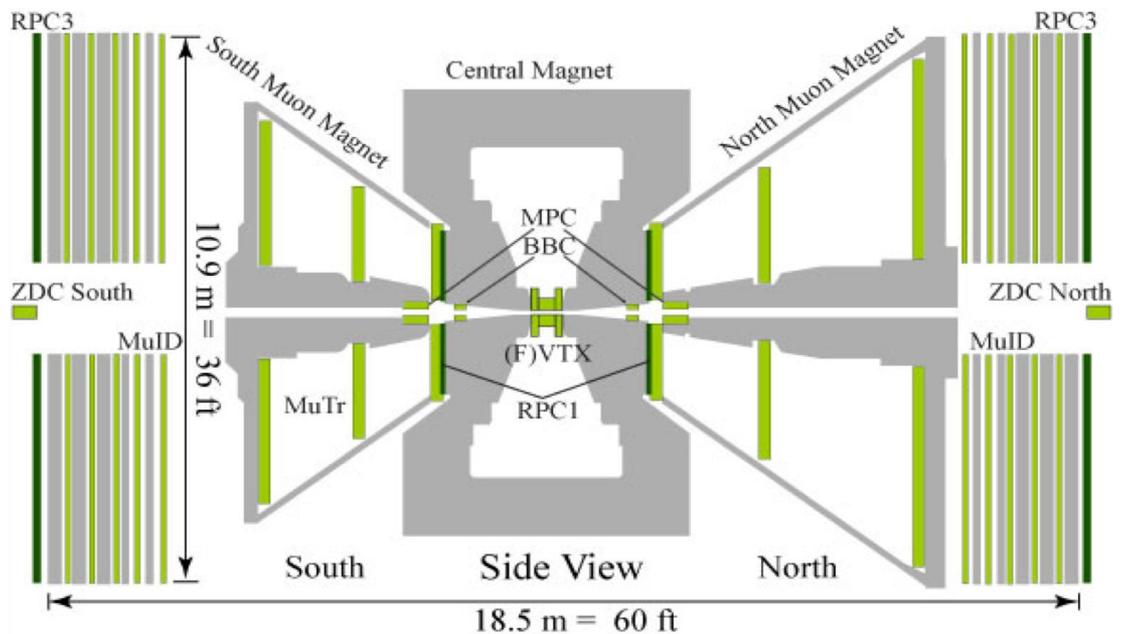


PHENIX Run-13 status

Hubert van Hecke
for the PHENIX collaboration

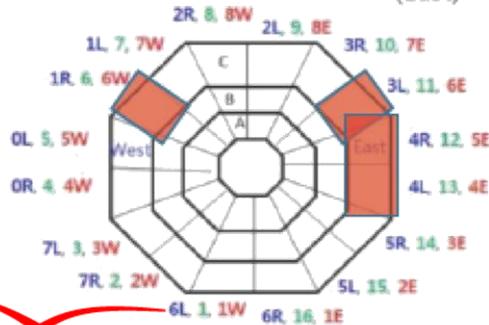
Important systems for Run-13

- W trigger
 - Both RPC's are now in the trigger
- MPC – Muon Piston Calorimeter
 - Trigger on forward pi0
- VTX - silicon vertex detector, and the FVTX – forward silicon detector



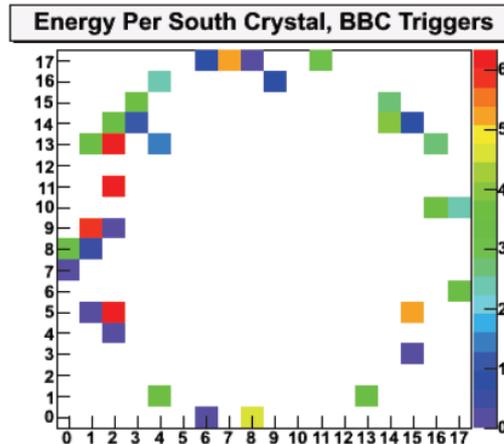
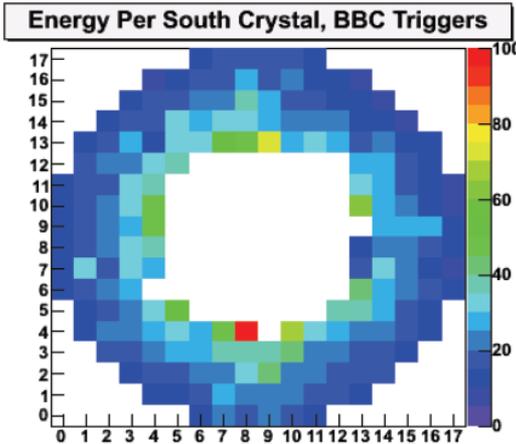
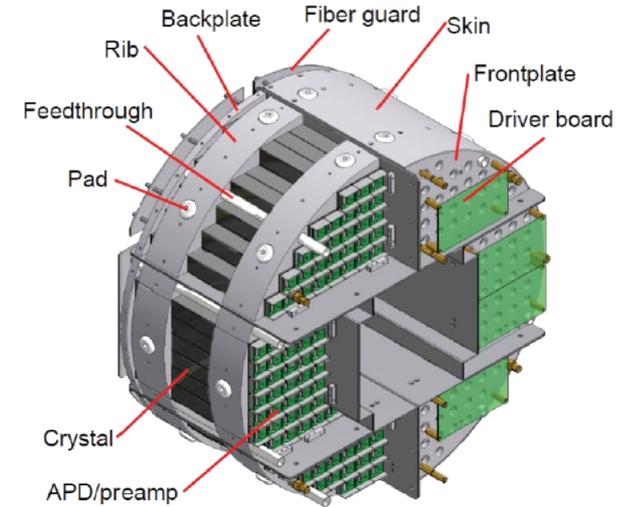
RPCs

- RPC1 (shown), located in front of the Muon arms, RPC3 located behind the Muon arms
- Added shielding in the tunnel
- Added cooling



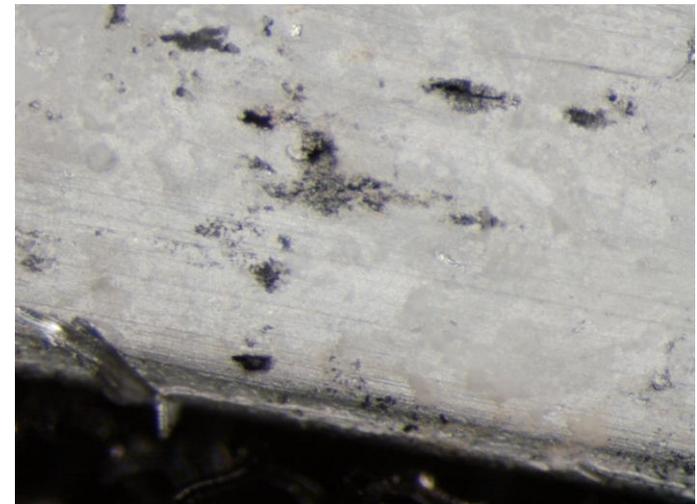
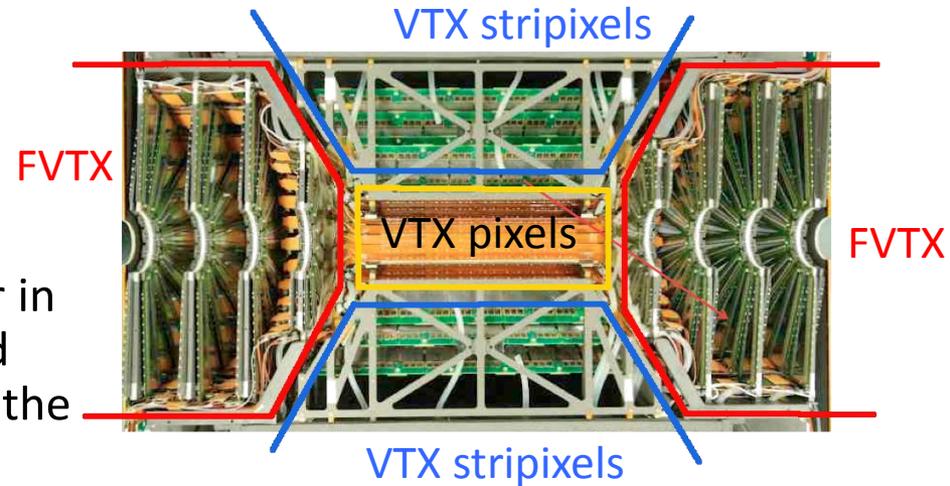
MPCs – Muon Piston Counters

- Beam dump during Run-12 damaged South MPC
- Repaired during the shutdown, and reinstalled
- We are still vulnerable to such an event



VTX and FVTX

- Commissioning was going well in December, but
- Massive leaks were seen in the outer barrel layer of the VTX (stripixels)
- Removed the East half of the detector in January, disassembled it, reassembled with only the FVTX, and reinstalled in the IR
- Rapid investigation identified galvanic corrosion between carbon and Aluminum as the cause
- VTX pixels (inner 2 barrels) and FVTX don't use Aluminum
- FVTX (again) fully functional



Commissioning continues

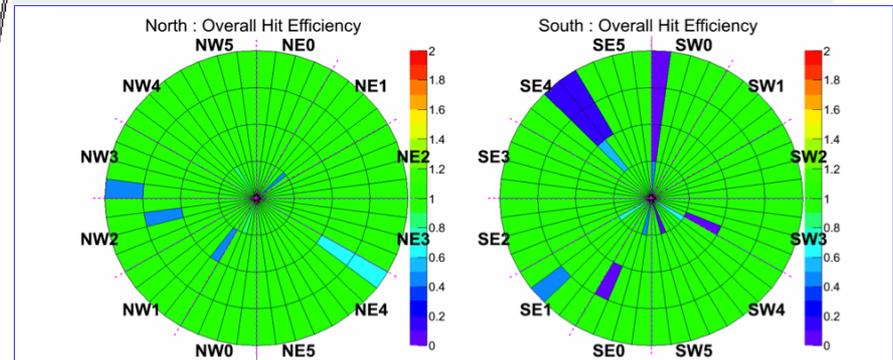
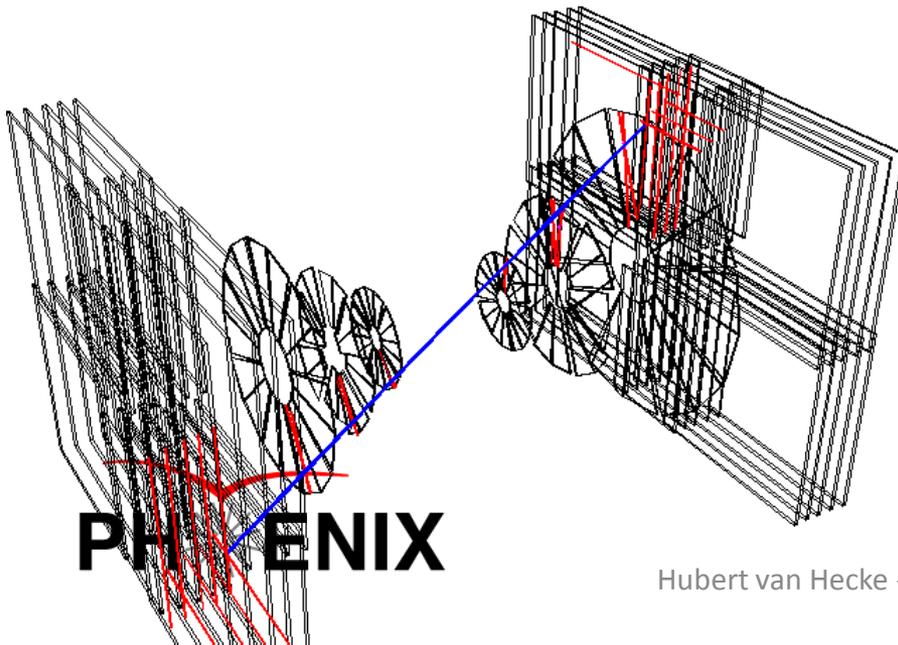
- FVTX back and operating (>96% live channels)
- Flammable gas is on since Feb 1, 2-person watch shifts started Jan 22
- First Cosmic data taken last night
- Magnets on today
- Shielding wall is up, plan to roll in on Friday 8
- Full shifts starting Feb 11

Calibration Summary for 10029_CALIB_FullSystemAfterFixes.FVTX

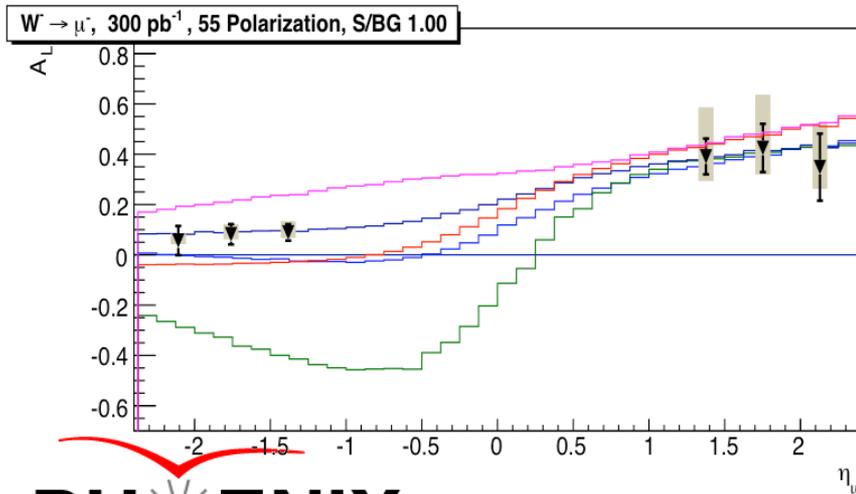
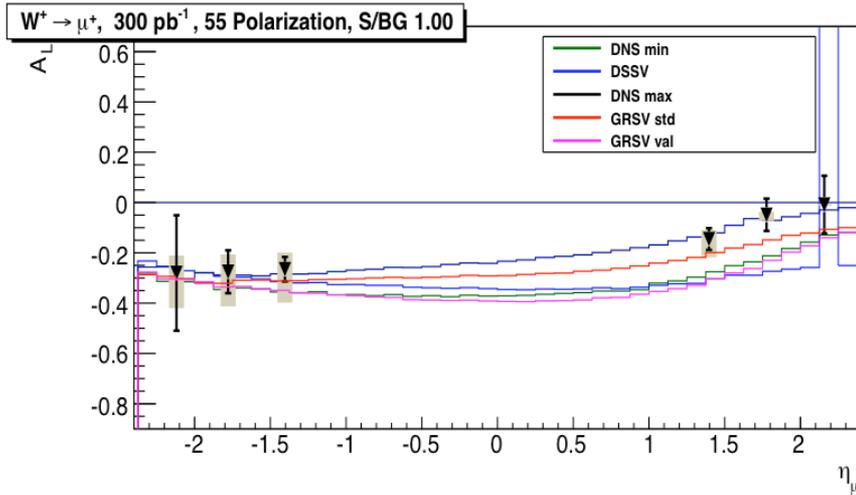
FVTX Calibration run taken at Sun Feb 3 13:54:48 EST 2013. 1008 data location : data/Data_Run13/10029_CALIB_FullSystemAfterFixes.FVTX

Alive Channels and Efficiency

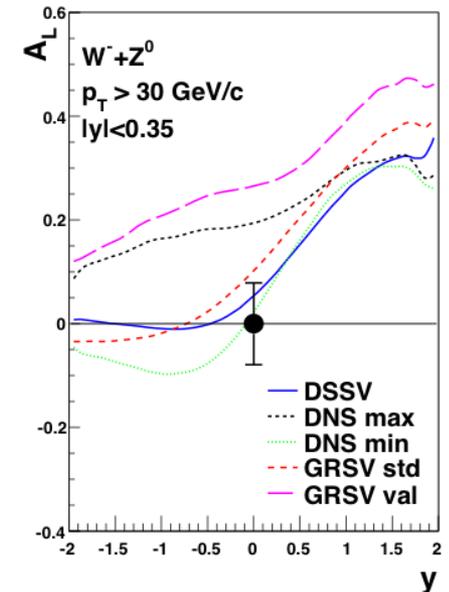
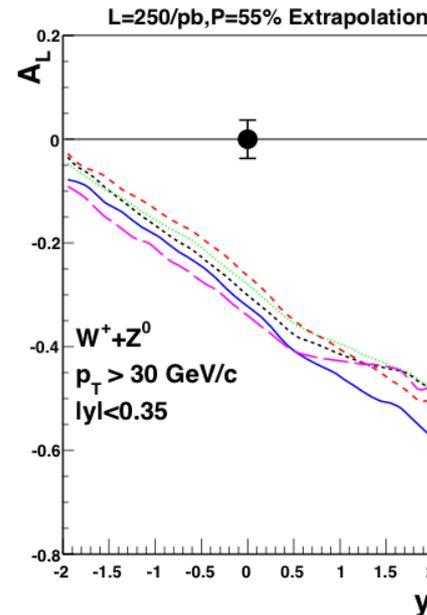
Overall Eff. = 0.952 / 1.0	FVTX DAQ hit efficiency averaged over all wedges
Alive ROCs = 24 / 24	ROCs which have hits
ROCs with Calibration = 24 / 24	ROCs which started calibration
Alive Wedges Sides = 761 / 768	Number of half wedges (sides of wedges) which have hits
Alive Channels = 1033816 / 1081344	Channels which have calibration hits, although their efficiency might not be 100%



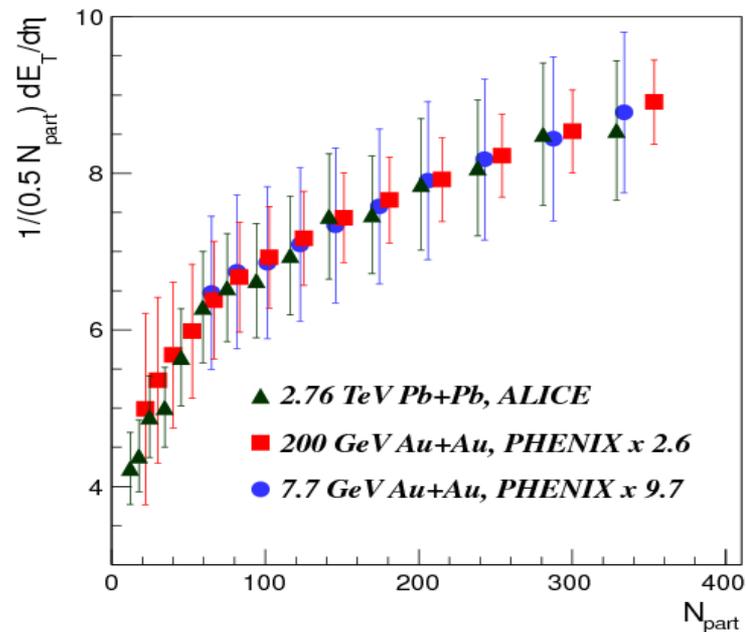
Run-13 top priority: finish the W program



Inclusive high p_T leptons
 $\int L dt = 300 \text{ pb}^{-1}$ in 30cm, $P \geq 0.55$
 250 pb⁻¹ recorded in Run-13
 -> $\sim 750 \text{ pb}^{-1}$ delivered



After that, energy scan program



backup

